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ABSTRACT

All students receiving master's degrees, doctoral candidacy status, and doctorates at the University of Washington between fall 1974 and the summer quarter 1975 were studied. Data are reported for male, female, and total groups on source of bachelor's degree, age at entry, number of years since receipt of the most recent degree, credits earned, GPA, quarters in attendance, and number of thesis or dissertation credits. For matemaster's recipients whose most recent degree was a bachelor's, over three quarters received degrees within two years. For doctoral candidates and doctorates, type of preceding degree influenced the length of time taken to complete the higher degree. Those having degrees higher than a bachelor's took a full year less than those whose most recent degree was a bachelor's. The higher the degree level, the smaller the proportion of women graduates. (Author)

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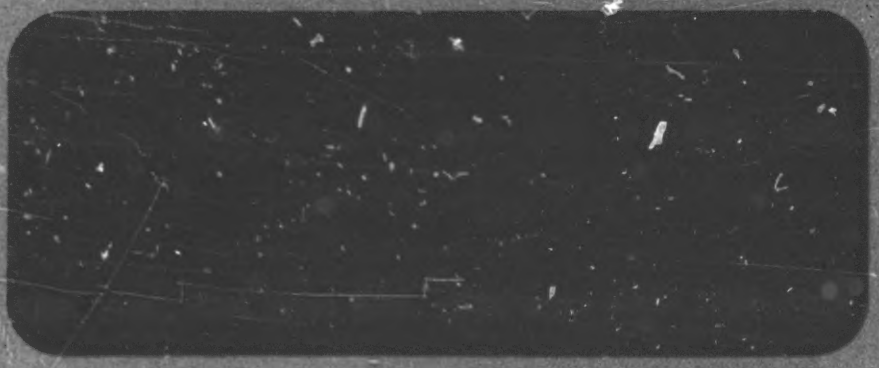

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Time to Advanced Degree:
A Profile of Recent Advanced Degree Recipients

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All students receiving master's, doctoral candidacy status, and doctorates at the University of Washington between Autumn 1974 and Summer Quarter 1975 were studied. Data are reported for male, female, and total groups on source of bachelor's, age at entry, number of years since most recent degree, credits earned, GPA, quarters in attendance, and number of thesis/dissertation credits. For master's recipients whose most recent degree was a bachelor's, over 3/4's received degrees within 2 years. For doctoral candidates and doctorates type of preceding degree influenced the length of time to complete the degree. Those having degrees higher than a bachelor's took a full year less than those whose most recent degree was a bachelor's. The higher the degree level, the smaller the proportion of women graduates.

Educational Assessment Center Project # 567.

Time to Advanced Degree:

A Profile of Recent Advanced Degree Recipients

The amount of research attention lavished upon a group of University students seems to be inversely related to the class level of that particular group. The youngest of our under-graduates, the freshmen, are studied rather intensively. We routinely profile their scores on entering precollege tests and predict their success at the end of their freshman year, while the oldest class, the seniors, are studied to a much lesser extent. Similarly, on the graduate level the emphasis is generally upon first-year graduate students, once again reporting performance on selected entrance criteria in predicting first-year success, while little effort is placed on profiling the advanced degree recipient.

The current paper is an attempt to fill this gap by profiling a recent group of advanced degree recipients from the University of Washington (UW). In brief, the procedure was as follows. All advanced degree recipients during one academic year were studied. For those degrees having 10 or more recipients data are predented for male, female, and total groups separately. Specific variables related to the degree program itself included total credits, GPA, total thesis/dissertation credits, and time to complete the advanced degree. Other factors were age at entry to program, number of years elapsed since last degree, and source of bachelor's. The principal inquiries were how long it takes to earn an advanced degree, e.g., what fraction of the master's is earned within two calendar years of entry? Do graduate students in particular programs take longer than "average" to advance to Candidacy status? Do men and women take the same amount of time to earn a Doctorate? In examining the data another important query concerned whether intra-degree differences (between the sexes receiving the same degree) were more pronounced than the inter-degree differences (between degrees disregarding sex).

Method

Sample. All students ($N = 2,327$) receiving at least one advanced degree (i.e., master's, doctorate, or doctoral candidacy status) from UW between Autumn Quarter, 1974, and Summer Quarter, 1975, inclusive, were studied. Students having achieved more than one advanced degree during this period were included only under the degree awarded most recently. Recipients of most professional degrees (i.e., dental, medical, or law) were excluded. Overall, 39% of these degrees

were received by women (N = 896) and 61% by men (N = 1,431). While the proportions of women and men receiving master's were about equal (745 women or 46% vs. 888 men or 54%), this was not true of the candidates and doctorates. For candidates, 73 (23%) were women and for doctorates 77 (21%) were women.

During this four quarter period the UW granted 46 distinct advanced degrees. Table 1 presents the numbers by type of most recent degree divided into two groups: those preceded by a bachelor's degree and those higher than a bachelor's. This report focuses only upon those 23 master's programs with 10 or more recipients having only a bachelor's as most recent advanced degree, the Candidate in Philosophy (PhC), and the Doctor of Philosophy (PhD) degree. (The PhC is excluded from the category "higher than a bachelor's" in grouping doctorates by type of preceding degree since attainment of candidacy status is a necessity for all UW doctorates.)

Variables. For male, female, and total groups the following data were collected: source of bachelor's--UW, Other-Washington State (O-WA), Other-United States (O-USA), or Other-Foreign (O-FOR), mean age at entry (Mean Age), mean number of years elapsed since last degree (Mean Elapse), total number of credits (Mean Credits), GPA, number of thesis/dissertation credits, and number of quarters in attendance. In order to ascertain the number of full-time, part-time, and total quarters in attendance, the following guidelines were used: full-time study was considered 7 or more credits in coursework for which graduate students can receive credit; part-time study was a quarter in which a student had taken fewer than 7 credits. Total quarters in attendance was the sum of the part-time and full-time quarters.

Degree groups. For four advanced degrees (i.e., Master of Arts or MA, Master of Science or MS, PhC, and PhD) Arts and Sciences fields were divided into five groups: Earth Science Group (Atmospheric Sciences, Geological Sciences, Oceanography), Social Science Group (Political Science, Sociology), Biological Science Group (Botany, Genetics, Zoology), Pure Science Group (Astronomy, Physics), and Literature Group (Asian Languages & Literature, Near Eastern Languages & Literature, Romance Languages & Literature, Scandinavian Languages & Literature, Slavic Languages & Literature, Comparative Literature, English, Germanics, Linguistics, Classics). For the PhC and PhD groups two additional groups were Engineering and Medical School graduates. Lastly, inasmuch as Table 1 indicated that there were substantial proportions of PhC and PhD degree recipients in both preceding degree categories, students were also grouped by type of most recent degree.

Table 1

Advanced Degrees by Type of Preceding Degree

Degree	Type of Preceding degree	
	Bachelor's N	Higher than bachelor's N
Master of Arts	246	14
Master of Arts for Teachers	33	1
Master of Arts in Home Economics	1	--
Master of Science	190	20
Master of Science in Aeronautics & Astronautics	11	--
Master of Science in Ceramics	1	--
Master of Science in Ceramic Engineering	1	--
Master of Science in Chemical Engineering	12	--
Master of Science in Civil Engineering	29	1
Master of Science in Dentistry	--	18
Master of Science in Electrical Engineering	29	4
Master of Science in Engineering	13	--
Master of Science in Mathematical Statistics	1	2
Master of Science in Mechanical Engineering	14	--
Master of Science in Metallurgical Engineering	5	--
Master of Science in Metallurgy	1	--
Master of Science in Nuclear Engineering	14	1
Master of Science in Physical Education	9	--
Master of Science in Public Health	11	2
Master of Science in Radiological Sciences	4	--
Master of Aeronautics & Astronautics	--	3
Master of Architecture	23	--
Master of Business Administration	155	7
Master of Communications	6	1
Master of Education	252	6
Master of Fine Arts	31	1
Master of Forest Resources	2	--
Master of Health Administration	17	--
Master of Laws	3	8
Master of Librarianship	99	14
Master of Music	10	--
Master of Nursing	64	--
Master of Occupational Therapy	4	--
Master of Public Administration	47	3
Master of Public Health	--	6
Master of Social Work	129	9
Master of Speech Pathology & Audiology	34	--
Master of Urban Planning	21	1
Candidate in Philosophy	93	219
Candidate in Arts	--	2
Candidate in Education	1	2
Candidate in Musical Arts	1	3
Doctor of Philosophy	102	250
Doctor of Arts	--	4
Doctor of Education	--	5
Doctor of Musical Arts	--	7

Results

The Master's Degrees. Tables 2 to 4 present data for recipients of the MA, MS, and other master's degrees, respectively, whose most recent advanced degree was a bachelor's. Seventy percent of these were represented by six degrees: Master of Education or MEd (N = 252), MA (N = 246), MS (N = 190), Master of Business Administration or MBA (N = 155), Master of Social Work of MSW (N = 129), and Master of Librarianship or MLib (N = 99). In addition to the degree groups noted above for the MA and MS degrees, any area of concentration for which there were 5 or more degree recipients and which was not included in one of these groups was also included in the anlysis. As Table 2 indicates there were 12 such degree areas accounting for 93% of the total number of MA's and about half of which were awarded to the Literature Group (107 or 43%). Similarly, there were 13 MS degree areas accounting for 95% of these degrees although, as Table 3 indicates, no one area contained more than 19% of the total MS graduates.

Just how long did it take a student to earn a UW master's? The data for this total group of master's recipients report that it takes an average of 7.2 quarters in attendance, 5.2 full-time and 2.0 part-time. Among the 23 master's in Tables 2-4 there was a range of almost 4 quarters between the degree with the shortest completion rate (MLib where the total quarters = 5.5) and that with the longest (Master of Architecture or MArch where the total quarters = 9.3). In addition to the MArch degree there were 5 other master's programs in which graduates took over two full years to obtain their degrees (i.e., MS, MS in Mechanical Engineering, MS in Public Health, Master of Urban Planning, Master of Music or MMus). Since these six programs represented only 18% of the total number of master's awarded to those whose most recent degree was a bachelor's, one can conclude that, in general, the overriding proportion of such entrants to these UW master's programs receive their degree within two calendar years.

Did the sexes within a degree program differ in the amount of time taken to complete their degrees? A few differences did exist but they're very minor. For two degrees, MA and MMus, in which the sexes were in attendance for an equal number of total quarters (7.5 and 8.4 for MA and MMus, respectively) the men took one quarter more full-time study than the women (5.6 vs. 4.7 for MAs, 6.4 vs. 5.0 for MMus's), while the women took one more quarter part-time study than the men. There were six degrees (MA for Teachers, MS in Nuclear Engineering, Master of

Health Administration, Master of Nursing, Master of Speech Pathology & Audiology, Master of Urban Planning) in which the men took 1 or more quarters longer than the women to complete their degrees, and three (MS in Public Health, MArch, MLib) in which the women took longer than the men.

One obvious correlate of differing times to completion would be the number of credits taken--the greater the number of credits accumulated the greater the number of quarters in attendance expected. An examination of Table 2-4 does link the two; the degree with the shortest number of quarters (i.e., MLib) being in the smallest Mean Credit group and that with the longest (i.e,, MArch) in the largest. The MS in Civil Engineering degree had the smallest number of Mean Credit (49.5), while the MArch degree, besides being the longest in terms of total number of quarters, also had the largest number of Mean Credit (99.4). There were 10 degrees (including MEd and MLib) in which Mean Credit was less than 59, 8 (including MA, MBA, and MSW) in the 60-69 credit bracket, and the remaining 5 (including MS and MARch) had greater than 70.

The other main area of interest concerned intra-degree differences (between the sexes receiving the same degree) and inter-degree differences (between degrees disregarding sex). Which were more pronounced? While overall proportions of men and women attaining master's degrees were about equal, this equality did not exist on a degree-by-degree basis. There were 6 master's programs in which over 2/3's of the recipients were women (Master of Nursing, Master of Speech Pathology & Audiology, MLib, MA for Teachers, MEd, and MSW). Similarly, 14 master's programs awarded 2/3's or more of their degrees to men (MS in Aeronautics & Astronautics, MS in Chemical Engineering, MS in Electrical Engineering, MS in Engineering, MS in Mechanical Engineering, MS in Nuclear Engineering, MS in Civil Engineering, MBA, MArch, MS, Master of Urban Planning, Master of Public Administration, Master of Health Administration, and Master of Fine Arts). For only three degrees (MA, MS in Public Health, and MMus) were there about equal proportions of the sexes. And, within the MA degree certain fields were predominantly male (East Asian Studies, Economics, Philosophy) or female (Art, Speech, Nursing).

What were the baccalaureate origins of these graduates? There seemed to be two main sources--UW and O-USA. The proportions ranged between 8-79% from UW and 9-71% from O-USA. Eight of the master's degrees had approximately one-third of their graduates from the UW and about half from O-USA institutions, while nine of the degrees had about half of their graduates with UW origin and one-third from O-USA.

Table 2

Characteristics of Master of Arts Graduates with Preceding Degree a Bachelor's

Group	Sex	N	Source of Bachelor's (%)				Mean	Mean	Mean	Mean	Mean Thesis	Mean Quarters in Attendance		
			UW	O-WA	O-USA	O-FOR	Age	Elapse	Credits	GPA	Credits	Full	Part	Total
Total														
	M	124	29	7	57	7	25.5	1.8	64.6	3.59	4.5	5.6	1.9	7.5
	F	122	39	6	50	5	27.2	2.9	57.9	3.64	7.3	4.7	2.8	7.5
	T	246	34	7	53	6	26.3	2.4	61.3	3.62	5.9	5.1	2.3	7.5
Social Science Group														
	M	7	14	--	57	29	24.6	2.1	58.7	3.78	2.9	5.0	2.0	7.0
	F	7	57	--	43	--	23.7	0.4	69.0	3.72	11.6	6.6	1.6	8.1
	T	14	36	--	50	14	24.1	1.3	63.9	3.75	7.2	5.8	1.8	7.6
Literature Group														
	M	51	28	6	61	6	24.8	1.2	65.7	3.64	3.6	5.7	1.9	7.6
	F	56	43	4	50	4	25.9	2.5	53.8	3.64	3.3	4.3	2.5	6.8
	T	107	36	5	55	5	25.4	1.8	59.5	3.64	3.4	4.9	2.3	7.2
East Asian Studies														
	M	9	11	--	89	--	25.0	2.7	70.8	3.67	0.3	6.2	0.7	6.9
	F	1	--	--	100	--	23.0	1.0	72.0	4.00	0.0	6.0	1.0	7.0
	T	10	10	--	90	--	24.8	2.5	70.9	3.71	0.3	6.2	0.7	6.9
Anthropology														
	M	3	67	--	33	--	31.7	4.3	45.3	3.56	10.3	4.3	1.0	5.3
	F	2	50	--	--	50	25.5	1.5	56.5	3.33	4.5	6.0	2.0	8.0
	T	5	60	--	20	20	29.2	3.2	49.8	3.47	8.0	5.0	1.4	6.4
Art														
	M	1	--	--	100	--	27.0	3.0	38.0	3.57	11.0	3.0	3.0	6.0
	F	8	38	25	38	--	30.3	7.8	52.5	3.66	9.3	3.5	5.3	8.8
	T	9	33	22	44	--	29.9	7.2	50.9	3.65	9.4	3.4	5.0	8.4

Table 2 (cont'd)

Group	Sex	N	Source of Bachelor's (%)				Mean	Mean	Mean	Mean	Mean Thesis	Mean Quarters in Attendance		
			US	O-WA	O-USA	O-FOR	Age	Elapse	Credits	GPA	Credits	Full	Part	Total
Communications														
	M	3	100	--	--	--	26.3	0.7	66.3	3.57	11.7	7.3	1.0	8.3
	F	5	40	--	60	--	24.2	2.0	67.4	3.84	13.6	6.6	2.2	8.8
	T	8	63	--	38	--	25.0	1.5	67.0	3.74	12.9	6.9	1.8	8.6
Drama														
	M	6	17	--	83	--	25.8	1.8	63.5	3.65	6.7	5.2	1.2	6.3
	F	6	--	33	67	--	26.0	3.7	55.2	3.48	8.0	4.5	2.8	7.3
	T	12	8	17	75	--	25.9	2.8	59.3	3.56	7.3	4.8	2.0	6.8
Economics														
	M	12	25	8	33	33	24.4	1.3	48.9	3.23	1.0	4.0	2.8	6.8
	F	4	--	25	50	25	22.3	0.5	49.8	3.37	0.0	4.0	1.3	5.3
	T	16	19	13	38	31	23.9	1.4	49.1	3.26	0.8	4.0	2.4	6.4
History														
	M	8	50	13	38	--	24.8	2.0	69.0	3.68	5.6	6.4	1.6	8.0
	F	6	50	--	50	--	28.3	3.8	69.0	3.79	14.3	4.5	5.8	10.3
	T	14	50	7	43	--	26.3	2.8	69.0	3.73	9.4	5.6	3.4	9.0
Philosophy														
	M	8	13	25	63	--	24.0	1.6	70.8	3.72	0.0	7.1	1.0	8.1
	F	1	--	--	100	--	29.0	0.0	68.0	3.61	0.0	5.0	3.0	8.0
	T	9	11	22	67	--	24.6	1.4	70.4	3.70	0.0	6.9	1.2	8.1
Speech														
	M	3	33	33	33	--	26.0	4.7	59.0	3.42	6.3	4.7	2.3	7.0
	F	7	43	--	57	--	26.4	3.3	70.1	3.72	11.3	6.1	2.1	8.3
	T	10	40	10	50	--	26.3	3.7	66.8	3.63	9.8	5.7	2.2	7.9
Nursing														
	M	--	--	--	--	--	--	--	--	--	--	--	--	--
	F	15	40	--	47	13	32.3	3.1	61.1	3.57	15.3	4.9	2.7	7.6
	T	15	40	--	47	13	32.3	3.1	61.1	3.57	15.3	4.9	2.7	7.6

Table 3

Characteristics of Master of Science Graduates with Preceding Degree a Bachelor's

Group	Sex	N	Source of Bachelor's (%)				Mean	Mean	Mean	Mean	Mean Thesis	Mean Quarters in Attendance		
			UW	O-WA	O-USA	O-FOR	Age	Elapse	Credits	GPA	Credits	Full	Part	Total
Total														
	M	144	34	6	51	8	24.7	1.6	76.8	3.54	19.2	6.9	1.9	8.9
	F	46	24	11	52	13	26.4	3.4	72.4	3.54	16.3	6.2	3.0	9.3
	T	190	32	7	52	10	25.1	2.1	75.7	3.54	18.5	6.8	2.2	9.0
Earth Science Group														
	M	15	33	7	60	--	23.7	0.9	89.4	3.73	23.9	8.1	1.7	9.7
	F	4	--	25	75	--	24.0	2.0	100.3	3.18	17.3	10.5	1.3	11.8
	T	19	26	11	63	--	23.8	1.1	91.7	3.61	22.5	8.6	1.6	10.2
Biological Science Group														
	M	3	--	--	100	--	22.3	0.3	91.3	3.56	20.0	7.3	2.3	9.7
	F	6	17	--	67	17	25.0	2.0	65.5	3.66	13.2	5.8	2.3	8.2
	T	9	11	--	78	11	24.1	1.4	74.1	3.62	15.4	6.3	2.3	8.7
Pure Science Group														
	M	18	44	--	50	6	22.6	0.3	71.7	3.45	0.0	7.1	1.0	8.1
	F	2	--	50	--	50	23.5	0.5	70.0	3.23	0.0	6.0	1.5	7.5
	T	20	40	5	45	10	22.7	0.4	71.6	3.43	0.0	7.0	1.1	8.1
Chemistry														
	M	8	25	38	38	--	24.8	1.6	68.0	3.25	5.8	5.4	2.8	8.1
	F	3	--	33	33	33	23.0	1.7	77.3	3.11	16.0	8.0	1.3	9.3
	T	11	18	36	36	9	24.3	1.6	70.6	3.21	8.6	6.1	2.4	8.5
Mathematics														
	M	4	25	--	75	--	24.8	0.8	82.3	3.83	2.3	8.0	1.8	9.8
	F	2	--	--	100	--	23.5	1.5	87.5	3.66	0.0	9.5	1.0	10.5
	T	6	17	--	83	--	24.3	1.0	84.0	3.77	1.5	8.5	1.5	10.0
Microbiology														
	M	4	50	--	50	--	23.5	0.8	83.0	3.29	2.3	6.8	0.0	6.8
	F	4	50	--	50	--	32.5	10.3	55.5	3.52	0.0	4.3	0.5	4.8
	T	8	50	--	50	--	28.0	5.5	69.3	3.40	1.1	5.5	0.3	5.8

Table 3 continued

Group	Sex	N	Source of Bachelor's (%)				Mean	Mean	Mean	Mean	Mean Thesis'	Mean Quarters in Attendance		
			UW	O-WA	O-USA	O-FOR	Age	Elapse	Credits	GPA	Credits	Full	Part	Total
Physical Education														
	M	2	--	--	50	50	24.0	1.5	41.0	3.36	14.5	4.0	2.5	6.5
	F	5	40	40	20	--	28.0	1.6	57.8	3.63	13.2	4.2	4.8	9.0
	T	7	29	29	29	14	26.9	1.6	53.0	3.56	13.6	4.1	4.1	8.3
Psychology														
	M	4	25	--	75	--	25.3	3.0	80.3	3.49	15.8	7.0	1.8	8.8
	F	1	--	--	100	--	22.0	0.0	116.0	4.00	29.0	11.0	1.0	12.0
	T	5	20	--	80	--	24.6	2.4	87.4	3.59	18.4	7.8	1.6	9.4
Computer Science														
	M	9	44	--	33	22	24.8	1.9	54.3	3.66	5.1	4.4	3.4	7.9
	F	1	--	--	--	100	23.0	1.0	73.0	3.67	22.0	7.0	1.0	8.0
	T	10	40	--	30	30	24.6	1.8	56.2	3.66	6.8	4.7	3.2	7.9
Civil Engineering														
	M	9	11	--	78	11	25.9	2.7	50.8	3.63	14.9	4.3	2.3	6.7
	F	3	67	--	33	--	26.7	5.0	50.7	3.58	18.0	3.7	4.0	7.7
	T	12	25	--	67	8	26.1	3.3	50.8	3.62	15.7	4.2	2.8	6.9
Fisheries														
	M	27	48	4	41	7	26.0	2.6	92.6	3.46	45.8	8.4	2.1	10.5
	F	5	60	--	40	--	24.0	1.6	80.0	3.62	32.2	5.0	8.2	13.2
	T	32	50	3	41	6	25.7	2.4	90.7	3.49	43.7	7.8	3.1	10.9
Forestry														
	M	34	29	6	53	12	25.3	1.9	68.9	3.60	17.5	6.4	1.6	8.0
	F	3	--	--	33	67	28.3	4.0	70.7	3.50	27.3	6.3	1.7	8.0
	T	37	27	5	51	16	25.5	2.0	69.1	3.59	18.3	6.4	1.6	8.0
Biomathematics														
	M	2	50	--	50	--	22.0	0.5	134.5	3.54	37.5	12.5	3.5	16.0
	F	3	33	--	67	--	32.3	7.3	83.7	3.62	20.7	7.3	2.3	9.7
	T	5	40	--	60	--	28.2	4.6	104.0	3.59	27.4	9.4	2.8	12.2

Table 4

Characteristics of Other Master's Degrees with Preceding Degree a Bachelor's

Group	Sex	N	Source of Bachelor's (%) UW	O-WA	O-USA	O-FOR	Mean Age	Mean Elapse	Mean Credits	Mean GPA	Mean Thesis Credits	Mean Quarters in Attendance Full	Part	Total
Master of Arts for Teachers														
	M[a]	9	11	22	44	11	28.1	4.1	60.3	3.50	4.1	4.9	3.4	8.3
	F	24	33	13	50	4	32.3	8.4	49.8	3.71	0.5	3.7	2.5	6.2
	T[a]	33	27	15	49	6	31.2	7.2	52.6	3.65	1.5	4.0	2.8	6.8
Master of Science in Aeronautics and Astronautics														
	M	11	27	--	9	64	27.3	2.3	57.2	3.37	14.2	4.2	2.5	6.6
	F	--	--	--	--	--	--	--	--	--	--	--	--	--
	T	11	27	--	9	64	27.3	2.3	57.2	3.37	14.2	4.2	2.5	6.6
Master of Science in Chemical Engineering														
	M	12	8	--	42	50	24.3	1.3	67.7	3.46	27.5	6.0	1.1	7.1
	F	--	--	--	--	--	--	--	--	--	--	--	--	--
	T	12	8	--	42	50	24.3	1.3	67.7	3.46	27.5	6.0	1.1	7.1
Master of Science in Civil Engineering														
	M	26	39	12	27	23	27.3	2.8	49.0	3.54	13.9	4.2	2.1	6.3
	F	3	67	--	--	33	24.3	0.7	53.0	3.30	11.3	4.7	1.7	6.3
	T	29	41	10	24	24	27.0	2.6	49.5	3.51	13.6	4.2	2.0	6.3
Master of Science in Electrical Engineering														
	M	29	79	3	10	7	26.0	1.6	52.3	3.50	10.3	3.9	2.9	6.8
	F	--	--	--	--	--	--	--	--	--	--	--	--	--
	T	29	79	3	10	7	26.0	1.6	52.3	3.50	10.3	3.9	2.9	6.8
Master of Science in Engineering														
	M	13	54	8	31	8	28.9	3.0	57.2	3.56	18.7	4.9	1.5	6.4
	F	--	--	--	--	--	--	--	--	--	--	--	--	--
	T	13	54	8	31	8	28.9	3.0	57.2	3.56	18.7	4.9	1.5	6.4

Table 4 continued

Group	Sex	N	Source of Bachelor's (%)				Mean	Mean	Mean	Mean	Mean Thesis	Mean Quarters in Attendance		
			UW	O-WA	O-USA	O-FOR	Age	Elapse	Credits	GPA	Credits	Full	Part	Total
Master of Science in Mechanical Engineering														
	M	14	50	--	36	14	25.8	1.1	64.9	3.52	30.6	5.4	2.8	8.2
	F	--	--	--	--	--	--	--	--	--	--	--	--	--
	T	14	50	--	36	14	25.8	1.1	64.9	3.52	30.6	5.4	2.8	8.2
Master of Science in Nuclear Engineering														
	M	13	31	8	46	15	25.1	1.6	55.6	3.44	15.4	4.2	3.3	7.5
	F	1	--	--	100	--	22.0	--	55.0	3.31	12.0	4.0	2.0	6.0
	T	14	29	7	50	14	24.9	1.5	55.6	3.43	15.1	4.2	3.2	7.4
Master of Science in Public Health														
	M	5	20	60	20	--	27.0	2.0	94.4	3.57	13.4	7.0	0.6	7.6
	F	6	50	--	33	17	25.5	3.0	82.3	3.54	19.0	6.3	2.2	8.5
	T	11	36	27	27	9	26.2	2.6	87.8	3.55	16.5	6.6	1.5	8.1
Master of Architecture														
	M	18	72	--	22	6	26.2	1.3	96.9	3.58	7.1	7.5	1.4	8.9
	F	5	40	--	40	20	26.6	4.2	108.0	3.74	10.6	8.8	1.8	10.6
	T	23	65	--	26	9	26.3	2.0	99.4	3.62	7.9	7.8	1.5	9.3
Master of Business Administration														
	M	136	57	10	33	1	26.1	2.6	69.3	3.48	0.3	5.6	2.0	7.6
	F	19	47	5	47	--	26.8	3.7	67.6	3.48	0.0	5.0	2.7	7.7
	T	155	56	9	35	1	26.2	2.7	69.1	3.48	0.3	5.5	2.1	7.6
Master of Education														
	M	85	41	28	31	--	29.1	4.7	56.7	3.55	0.1	3.7	3.0	6.7
	F	167	40	20	37	2	29.7	5.4	56.7	3.66	0.2	4.2	2.7	6.8
	T	252	41	23	35	2	29.5	5.2	56.7	3.62	0.2	4.0	2.8	6.8
Master of Fine Arts														
	M	19	37	26	32	5	26.5	1.2	55.3	3.78	15.3	4.8	2.2	7.0
	F	12	33	8	58	--	28.8	4.9	55.3	3.81	11.6	4.7	2.7	7.3
	T	31	36	19	42	3	27.4	2.6	55.3	3.79	13.9	4.7	2.4	7.1

Table 4 continued

Group	Sex	N	Source of Bachelor's (%)				Mean	Mean	Mean	Mean	Mean Thesis	Mean Quarters in Attendance		
			UW	O-WA	O-USA	O-FOR	Age	Elapse	Credits	GPA	Credits	Full	Part	Total
Master of Health Administration														
	M	11	27	9	64	--	29.0	4.7	76.6	3.51	--	6.7	0.4	7.1
	F	6	33	33	33	--	28.3	3.2	65.3	3.43	--	5.7	0.3	6.0
	T	17	29	18	53	--	28.8	4.2	72.6	3.48	--	6.4	0.4	6.7
Master of Librarianship														
	M	17	47	6	47	--	27.6	3.4	55.8	3.57	--	4.7	0.2	4.9
	F	82	35	26	39	--	28.8	5.5	54.2	3.63	--	4.0	1.6	5.7
	T	99	37	22	40	--	28.6	5.2	54.5	3.62	--	4.1	1.4	5.5
Master of Music														
	M	5	60	20	20	--	25.4	2.6	78.0	3.59	--	6.4	2.0	8.4
	F	5	40	--	40	20	26.6	4.2	60.0	3.59	--	5.0	3.4	8.4
	T	10	50	10	30	10	26.0	3.4	69.0	3.59	--	5.7	2.7	8.4
Master of Nursing														
	M	2	--	--	100	--	31.5	4.0	61.0	3.43	18.0	4.5	3.5	8.0
	F	62	24	11	58	7	32.2	4.8	55.5	3.68	12.6	4.5	2.0	6.4
	T	64	23	11	59	6	32.2	4.8	55.6	3.68	12.8	4.5	2.0	6.5
Master of Public Administration														
	M	31	48	29	23	--	27.3	3.5	68.1	3.46	--	5.6	1.4	7.0
	F	16	50	13	38	--	28.6	5.1	64.6	3.52	--	5.1	1.2	6.3
	T	47	49	23	28	--	27.8	4.0	66.9	3.48	--	5.4	1.3	6.7
Master of Social Work														
	M	46	37	30	33	--	26.5	2.6	70.6	3.71	0.3	5.8	0.5	6.3
	F	83	33	13	52	2	27.3	2.6	69.0	3.67	0.4	6.5	0.5	7.0
	T	129	34	19	45	2	27.0	2.6	69.6	3.69	0.4	6.2	0.5	6.7

Table 4 continued

Group	Sex	N	Source of Bachelor's (%)				Mean	Mean	Mean	Mean	Mean Thesis	Mean Quarters in Attendance		
			UW	O-WA	O-USA	O-FOR	Age	Elapse	Credits	GPA	Credits	Full	Part	Total
Master of Speech Pathology and Audiology														
	M	2	100	--	--	--	23.0	1.0	60.5	3.35	--	5.5	2.0	7.5
	F	32	75	6	16	3	24.4	1.4	62.2	3.64	0.5	5.1	0.6	5.7
	T	34	77	6	15	3	24.3	1.4	62.1	3.62	0.5	5.1	0.7	5.8
Master of Urban Planning														
	M	15	13	7	73	7	27.1	3.0	76.9	3.51	12.8	6.5	2.7	9.2
	F	6	17	17	67	--	25.2	2.7	72.3	3.65	10.3	6.0	1.3	7.3
	T	21	14	10	71	5	26.5	2.9	75.6	3.55	12.1	6.3	2.3	8.7

[a] Percentages for source of bachelor's do not sum to 100% because of missing data.

The average age at entry for most programs was in the mid-twenties and the correlated number of years since bachelor's 2-3. A few of the programs, Master of Nursing, MA-Nursing, MA for Teachers, MEd, and MA-Art, had older entrants (around 30) and, correspondingly, entrants further from the bachelor's (5 years).

The earned GPA's were very high for all degrees and the minimum GPA of 3.00 required by the Graduate School was substantially surpassed in all cases. The presence of a thesis can be detected by an examination of the "Mean Thesis Credits" columns in Tables 2-4. Taking 9 credits or more as indicating a thesis degree program, slightly greater than half of these 23 master's degree programs belong to this group. Of these 12 the range in average number of thesis credits was from 10.3 for MS in Electrical Engineering to 30.6 for MS in Mechanical Engineering.

The PhC. As Table 5 reveals, this status was attained by 312 individuals, only 30% of whom had a bachelor's degree as their last earned degree. There were 18 areas of concentration awarding candidacy status to 5 or more students, accounting for 86% of the PhC total. For each of these 18 areas degree recipients were divided by type of preceding degree-bachelor's (EQBA) or higher than a bachelor's (GTBA).

How long did it take these students to attain candidacy status? For the EQBAs it took slightly more than 3 years in residence (12.7 total quarters, 11.3 full-time and 1.5 part-time), while for the GTBAs it took slightly more than 2 years (8.7 total quarters, 7.1 full-time and 1.6 part-time). The difference was a year of full-time work. In both groups, women took approximately one quarter less to get their PhC than men. For 5 areas the GTBAs had no significant time advantage (Biological Science Group, Chemistry, Mathematics, Speech, and Education).

For those beginning with a bachelor's degree there were 4 areas in which candidacy was attained at least 2 quarters earlier than the mean of 12.7 (History, Psychology, Speech, and Education), while 2 exceeded that same mean by at least 2 quarters (Pure Science Group and Business Administration). Similarly, for those beginning with an advanced degree, there were 3 areas (Earth Science Group, History, and Microbiology) which granted the PhC at least 2 quarters earlier than the mean of 8.7 total quarters and 5 which awarded the PhC at least 2 quarters later than the mean (Biological Science Group, Medical School Group, Chemistry, Mathematics, and Business Administration).

In contrast with master's degrees, there was a much smaller number of women achieving candidacies, 46% of the master's vs. 23% of the PhCs. In Education and Speech, predominantly female at the master's level, the proportion of women awarded PhCs was 30% and 14%. For only two areas, Microbiology and Psychology, were the number of females greater than the number of males.

Table 5

Characteristics of Students Attaining Candidacy in Philosophy Status by Sex and Preceding Degree Type

Group	Sex	N	Source of Bachelor's (%)				Mean	Mean	Mean	Mean	Mean Diss.	Mean Quarters in Attendance		
			UW	O-WA	O-USA	O-FOR	Age	Elapse	Credits	GPA	Credits	Full	Part	Total
Total - Most Recent Degree a Bachelor's														
	M	70	14	9	59	19	24.6	1.9	107.7	3.71	32.8	11.5	1.5	13.0
	F	23	22	4	70	4	24.7	2.1	108.4	3.76	29.6	10.4	1.4	11.7
	T	93	16	8	61	15	24.6	1.9	107.9	3.73	32.0	11.3	1.5	12.7
Total - Most Recent Degree Higher than a Bachelor's														
	M	172	16	7	62	14	27.8	1.3	70.0	3.73	28.7	7.4	1.5	8.9
	F	47	19	11	57	13	29.4	1.5	62.4	3.75	13.7	5.9	1.8	7.7
	T	219	16	8	61	14	28.1	1.4	68.3	3.74	25.5	7.1	1.6	8.7
Earth Science Group - Most Recent Degree a Bachelor's														
	M	8	13	13	75	--	23.3	1.3	89.1	3.57	21.8	12.3	2.1	14.4
	F	--	--	--	--	--	--	--	--	--	--	--	--	--
	T	8	13	13	75	--	23.3	1.3	89.1	3.57	21.8	12.3	2.1	14.4
Earth Science Group - Most Recent Degree Higher than a Bachelor's														
	M	10	10	--	70	20	24.6	0.6	58.8	3.69	7.0	6.3	0.2	6.5
	F	1	--	--	100	--	22.0	--	35.0	3.43	--	3.0	--	3.0
	T	11	9	--	73	18	24.4	0.6	56.6	3.66	6.4	6.0	0.2	6.2
Social Science Group - Most Recent Degree Higher than a Bachelor's														
	M[a]	14	14	7	71	--	26.9	0.5	69.3	3.79	31.1	7.9	1.6	9.5
	F	6	33	17	50	--	26.8	0.8	50.5	3.72	6.8	5.5	2.0	7.5
	T[a]	20	20	10	65	--	6.9	0.6	63.7	3.77	23.9	7.2	1.7	8.9

Table 5 continued

Group	Sex	N	Source of Bachelor's (%)				Mean	Mean	Mean	Mean	Mean Diss.	Mean Quarters in Attendance		
			UW	O-WA	O-USA	O-FOR	Age	Elapse	Credits	GPA	Credits	Full	Part	Total
Biological Science Group - Most Recent Degree a Bachelor's														
	M	7	14	--	86	--	22.6	0.6	123.0	3.79	--	9.7	1.7	11.4
	F	1	100	--	--	--	24.0	2.0	123.0	3.34	--	14.0	4.0	18.0
	T	8	25	--	75	--	22.8	0.8	123.0	3.74	--	10.3	2.0	12.3
Biological Science Group - Most Recent Degree Higher than a Bachelor's														
	M	3	--	--	100	--	24.3	0.7	125.7	3.77	6.3	9.3	3.0	12.3
	F	--	--	--	--	--	--	--	--	--	--	--	--	--
	T	3	--	--	100	--	24.3	0.7	125.7	3.77	6.3	9.3	3.0	12.3
Pure Science Group - Most Recent Degree a Bachelor's														
	M	6	17	--	33	50	23.5	1.3	131.8	3.71	56.8	15.8	1.2	17.0
	F	--	--	--	--	--	--	--	--	--	--	--	--	--
	T	6	17	--	33	50	23.5	1.3	131.8	3.71	56.8	15.8	1.2	17.0
Pure Science Group - Most Recent Degree Higher than a Bachelor's														
	M	2	--	--	100	--	26.0	--	27.0	4.00	15.0	3.5	3.5	7.0
	F	--	--	--	--	--	--	--	--	--	--	--	--	--
	T	2	--	--	100	--	26.0	--	27.0	4.00	15.0	3.5	3.5	7.0
Literature Group - Most Recent Degree a Bachelor's														
	M	5	20	--	60	20	25.6	1.8	109.0	3.86	30.2	10.0	1.6	11.6
	F	2	--	--	50	50	23.5	0.5	104.5	3.62	24.5	9.0	2.5	11.5
	T	7	14	--	57	29	25.0	1.4	107.7	3.79	28.6	9.7	1.9	11.6
Literature Group - Most Recent Degree Higher than a Bachelor's														
	M	14	14	7	79	--	26.5	0.1	54.7	3.77	14.0	5.6	1.1	6.8
	F	14	14	--	71	14	28.1	0.5	68.0	3.84	15.1	6.4	1.4	7.9
	T	28	14	4	75	7	27.3	0.3	61.4	3.81	14.5	6.0	1.3	7.3

Table 5 continued

Group	Sex	N	Source of Bachelor's (%)				Mean	Mean	Mean	Mean	Mean Diss.	Mean Quarters in Attendance		
			UW	O-WA	O-USA	O-FOR	Age	Elapse	Credits	GPA	Credits	Full	Part	Total
Engineering Group - Most Recent Degree a Bachelor's														
	M	5	40	--	20	40	25.6	3.2	114.0	3.73	74.2	12.0	0.6	12.6
	F	--	--	--	--	--	--	--	--	--	--	--	--	--
	T	5	40	--	20	40	25.6	3.2	114.0	3.73	74.2	12.0	0.6	12.6
Engineering Group - Most Recent Degree Higher than a Bachelor's														
	M	24	13	4	33	50	28.8	2.2	72.3	3.72	54.0	8.0	1.6	9.7
	F	--	--	--	--	--	--	--	--	--	--	--	--	--
	T	24	13	4	33	50	28.8	2.2	72.3	3.72	54.0	8.0	1.6	9.7
Medical School Doctorate Group - Most Recent Degree a Bachelor's														
	M	9	--	22	67	--	24.7	1.7	113.3	3.72	36.1	11.8	1.0	12.8
	F	2	11	11	100	--	22.0	--	54.0	3.34	1.5	6.0	2.0	8.0
	T	11	9	18	73	--	24.2	1.4	102.6	3.65	29.8	10.7	1.2	11.9
Medical School Doctorate Group - Most Recent Degree Higher than a Bachelor's														
	M	3	--	--	100	--	25.7	2.0	176.3	3.63	83.7	15.0	0.3	15.3
	F	2	--	--	50	50	24.0	--	100.5	3.58	36.0	11.5	2.5	14.0
	T	5	--	--	80	20	25.0	1.2	146.0	3.60	64.6	13.6	1.2	14.8
Chemistry - Most Recent Degree a Bachelor's														
	M	3	--	--	67	33	25.0	3.0	108.3	3.34	30.3	10.3	1.0	11.3
	F	--	--	--	--	--	--	--	--	--	--	--	--	--
	T	3	--	--	67	33	25.0	3.0	108.3	3.34	30.3	10.3	1.0	11.3
Chemistry - Most Recent Degree Higher than a Bachelor's														
	M	4	--	25	50	25	26.0	--	111.8	3.79	64.5	11.3	0.5	11.8
	F	--	--	--	--	--	--	--	--	--	--	--	--	--
	T	4	--	25	50	25	26.0	--	111.8	3.79	64.5	11.3	0.5	11.8

Table 5 continued

Group	Sex	N	Source of Bachelor's (%)				Mean	Mean	Mean	Mean	Mean Diss.	Mean Quarters in Attendance		
			UW	O-WA	O-USA	O-FOR	Age	Elapse	Credits	GPA	Credits	Full	Part	Total
Economics - Most Recent Degree Higher than a Bachelor's														
	M	4	50	--	25	25	25.0	--	67.0	3.82	38.8	5.8	2.5	8.3
	F	1	--	--	--	100	27.0	--	129.0	3.77	36.0	11.0	2.0	13.0
	T	5	40	--	20	40	25.4	--	79.4	3.81	38.2	6.8	2.4	9.2
History - Most Recent Degree a Bachelor's														
	M	2	--	--	50	50	25.0	3.0	96.0	3.8[illegible]	11.0	9.0	2.0	11.0
	F	1	100	--	--	--	24.0	2.0	61.0	3.61	5.0	5.0	2.0	7.0
	T	3	33	--	33	33	24.7	2.7	84.3	3.77	9.0	7.7	2.0	9.7
History - Most Recent Degree Higher than a Bachelor's														
	M	7	--	29	57	14	25.6	0.1	43.0	3.87	7.7	4.6	0.9	5.4
	F	1	--	100	--	--	37.0	2.0	52.0	4.00	9.0	5.0	--	5.0
	T	8	--	38	50	13	27.0	0.4	44.1	3.89	7.9	4.6	0.8	5.4
Mathematics - Most Recent Degree a Bachelor's														
	M	2	--	--	50	50	23.5	1.0	127.5	3.96	36.0	13.0	1.5	14.5
	F	--	--	--	--	--	--	--	--	--	--	--	--	--
	T	2	--	--	50	50	23.5	1.0	127.5	3.96	36.0	13.0	1.5	14.5
Mathematics - Most Recent Degree Higher than a Bachelor's														
	M	3	67	--	--	33	25.7	--	112.3	3.95	40.0	11.7	2.3	14.0
	F	--	--	--	--	--	--	--	--	--	--	--	--	--
	T	3	67	--	--	33	25.7	--	112.3	3.95	40.0	11.7	2.3	14.0
Microbiology - Most Recent Degree Higher than a Bachelor's														
	M	2	50	--	50	--	30.5	2.5	75.0	3.48	15.5	7.5	0.5	8.0
	F	3	67	--	33	--	22.3	--	42.7	--	12.0	4.3	--	4.3
	T	5	60	--	40	--	25.6	1.0	55.6	3.48	13.4	5.6	0.2	5.8

Table 5 continued

Group	Sex	N	Source of Bachelor's (%)				Mean	Mean	Mean	Mean	Mean Diss.	Mean Quarters in Attendance		
			UW	O-WA	O-USA	O-FOR	Age	Elapse	Credits	GPA	Credits	Full	Part	Total
Psychology - Most Recent Degree a Bachelor's														
	M	5	--	--	100	--	22.8	0.5	95.6	3.79	11.2	8.2	1.6	9.8
	F	11	27	--	73	--	24.6	1.7	99.1	3.82	21.6	9.6	1.2	10.7
	T	16	19	--	81	--	24.1	1.3	98.0	3.81	18.4	9.1	1.3	10.4
Psychology - Most Recent Degree Higher than a Bachelor's														
	M	4	25	--	75	--	26.0	0.8	81.0	3.89	13.5	8.8	0.8	9.5
	F	2	--	--	50	50	34.0	1.0	73.5	3.81	22.0	5.5	2.0	7.5
	T	6	17	--	67	17	28.7	0.8	78.5	3.86	16.3	7.7	1.2	8.8
Speech - Most Recent Degree a Bachelor's														
	M	1	--	100	--	--	25.0	3.0	77.0	3.64	--	6.0	2.0	8.0
	F	--	--	--	--	--	--	--	--	--	--	--	--	--
	T	1	--	100	--	--	25.0	3.0	77.0	3.64	--	6.0	2.0	8.0
Speech - Most Recent Degree Higher than a Bachelor's														
	M	5	20	--	80	--	28.4	1.4	74.2	3.62	11.2	7.8	1.4	9.2
	F	1	--	--	100	--	26.0	2.0	61.0	3.59	--	6.0	1.0	7.0
	T	6	17	--	83	--	28.0	1.5	72.0	3.61	9.3	7.5	1.3	8.8
Business Administration - Most Recent Degree a Bachelor's														
	M	2	--	--	--	100	29.0	--	85.5	3.62	53.5	11.5	4.5	16.0
	F	--	--	--	--	--	--	--	--	--	--	--	--	--
	T	2	--	--	--	100	29.0	--	85.5	3.62	53.5	11.5	4.5	16.0
Business Administration - Most Recent Degree Higher than a Bachelor's														
	M	14	7	7	86	--	29.2	1.2	73.1	3.82	31.1	8.2	2.9	11.1
	F	1	--	--	100	--	33.0	4.0	65.0	3.86	37.0	10.0	2.0	12.0
	T	15	7	7	87	--	29.5	1.4	72.6	3.82	31.5	8.3	2.9	11.2

Table 5 continued

Group	Sex	N	Source of Bachelor's (%)				Mean	Mean	Mean	Mean	Mean Diss.	Mean Quarters in Attendance		
			UW	O-WA	O-USA	O-FOR	Age	Elapse	Credits	GPA	Credits	Full	Part	Total
Education - Most Recent Degree a Bachelor's														
	M	--	--	--	--	--	--	--	--	--	--	--	--	--
	F	2	--	--	100	--	32.5	10.5	72.0	3.97	12.0	7.5	1.0	8.5
	T	2	--	--	100	--	32.5	10.5	72.0	3.97	12.0	7.5	1.0	8.5
Education - Most Recent Degree Higher than a Bachelor's														
	M	23	9	17	74	--	32.3	3.8	67.3	3.65	18.9	6.5	1.7	8.2
	F	8	38	25	38	--	34.5	4.4	63.9	3.66	9.4	4.4	3.1	7.5
	T	31	16	19	65	--	32.8	3.9	66.4	3.65	16.5	5.9	2.1	8.0
Fisheries - Most Recent Degree Higher than a Bachelor's														
	M[a]	6	--	--	83	--	26.3	0.7	93.7	3.63	66.0	9.0	2.5	11.5
	F	--	--	--	--	--	--	--	--	--	--	--	--	--
	T[a]	6	--	--	83	--	26.3	0.7	93.7	3.63	66.0	9.0	2.5	11.5
Forestry - Most Recent Degree a Bachelor's														
	M	5	40	20	--	40	27.6	4.6	84.4	3.75	26.6	9.2	0.8	10.0
	F	--	--	--	--	--	--	--	--	--	--	--	--	--
	T	5	40	20	--	40	27.6	4.6	84.4	3.75	26.6	9.2	0.8	10.0
Forestry - Most Recent Degree Higher than a Bachelor's														
	M	10	40	10	40	10	25.8	1.0	56.9	3.70	33.7	8.7	1.3	10.0
	F	--	--	--	--	--	--	--	--	--	--	--	--	--
	T	10	40	10	40	10	25.8	1.0	56.9	3.70	33.7	8.7	1.3	10.0

[a]Percentages for source of bachelor's do not sum to 100% because of missing data.

While for most master's programs the successful entrants were split either 30%-50% or 50%-30% between UW and O-USA institutions, at the PhC level the O-USA institutions generally represented greater than half with the percentage of UW baccalaureates reduced to about the same proportion as foreign institutions (16%).

Within the same area the following generalizations about PhCs can be made: EQBAs were younger at time of entry to their programs and accumulated a greater number of credits (and attended a greater number of quarters) prior to attainment of candidacy but did slightly more work on their dissertation in that time. Education and Business Administration PhCs were comparatively older and Education candidates, particularly, were further from their most recent degree.

The PhD. Data for the PhDs in Table 6 were quite similar to those for PhCs. Again about 70% of the PhDs had earlier advanced degrees. Nineteen areas awarded 5 or more PhDs and accounted for about 90% of the PhDs awarded. Thirteen areas awarded 10 or more PhDs (Earth Science Group, Social Science Group, Biological Science Group, Pure Science Group, Literature Group, Engineering Group, Medical School Group, Chemistry, History, Psychology, Business Administration, Education, and Fisheries).

Those without earlier advanced degrees took approximately one year longer to earn the PhD: 19.7 quarters (15.9 full-time and 3.7 part-time) as against 14.9 quarters (10.4 full-time and 4.6 part-time). In 3 areas (Biological Science Group, Chemistry, Psychology, Speech, Business Administration, Education, Fisheries, and Forestry) an earlier advanced degree did not substantially reduce the time required. While women and men with advanced degrees completed their PhD in about the same length of time, women with only a prior bachelor's took 2 quarters less than similarly educated men.

In 4 areas (Psychology, Speech, Education, and Forestry) the doctorate was attained by bachelor's entrants at least two quarters earlier than the mean of 19.7 quarters, while in two other areas it required at least two quarters more than the average (Pure Science Group and Medical School Group). Similarly, among entrants with advanced degrees 5 areas required 2 or more quarters fewer than the mean of 14.9 (Social Science Group, Earth Science Group, Literature Group, History, and Mathematics), while 7 required at least 2 quarters more than the average (Biological Science Group, Pure Science Group, Medical School Group, Chemistry, Business Administration, and Fisheries).

What summary can be made of the time needed to complete post-master's work? Regardless of the preceding degree there appeared to be a 2 year time period between

Table 6

Characteristics of Doctor of Philosophy Graduates by Sex and Preceding Degree Type

Group	Sex	N	Source of Bachelor's (%)				Mean	Mean	Mean	Mean	Mean Diss.	Mean Quarters in Attendance		
			UW	O-WA	O-USA	O-FOR	Age	Elapse	Credits	GPA	Credits	Full	Part	Total
Total - Most Recent Degree a Bachelor's														
	M	84	23	1	61	16	25.3	2.5	174.6	3.68	73.9	16.3	3.8	20.1
	F	18	11	11	78	--	24.3	1.8	161.3	3.79	65.8	14.3	3.4	17.7
	T	102	21	3	64	13	25.2	2.4	172.3	3.70	72.4	15.9	3.7	19.7
Total - Most Recent Degree Higher than a Bachelor's														
	M[a]	197	11	9	62	16	28.4	1.5	113.9	3.74	60.0	10.4	4.4	14.8
	F	53	21	2	59	19	29.7	1.2	115.9	3.80	51.6	10.2	5.2	15.3
	T[a]	250	13	7	61	17	28.6	1.4	114.3	3.75	58.2	10.4	4.6	14.9
Earth Science Group - Most Recent Degree a Bachelor's														
	M	5	20	--	40	40	24.4	3.2	171.2	3.67	104.6	17.2	3.2	20.4
	F	--	--	--	--	--	--	--	--	--	--	--	--	--
	T	5	20	--	40	40	24.4	3.2	171.2	3.67	104.6	17.2	3.2	20.4
Earth Science Group - Most Recent Degree Higher than a Bachelor's														
	M	8	--	--	100	--	27.6	1.0	87.6	3.87	51.9	7.6	4.5	12.1
	F	1	--	--	100	--	22.0	--	59.0	--	46.0	5.0	1.0	6.0
	T	9	--	--	100	--	27.0	0.9	84.4	3.87	51.2	7.3	4.1	11.4
Social Science Group - Most Recent Degree a Bachelor's														
	M	3	33	--	33	33	28.0	4.7	157.0	3.69	50.0	14.0	6.3	20.3
	F	--	--	--	--		--	--	--	--	--	--	--	--
	T	3	33	--	33	33	28.0	4.7	157.0	3.69	50.0	14.0	6.3	20.3
Social Science Group - Most Recent Degree Higher than a Bachelor's														
	M[a]	18	22	11	61	--	26.8	0.9	102.2	3.79	52.1	9.6	3.4	13.1
	F	3	--	--	100	--	29.3	--	83.7	4.00	31.3	8.7	3.0	11.7
	T[a]	21	19	10	67	--	27.2	0.8	99.5	3.83	49.1	9.5	3.4	12.9

Table 6 continued

Group	Sex	N	Source of Bachelor's (%)				Mean	Mean	Mean	Mean	Mean Diss.	Mean Quarters in Attendance		
			UW	O-WA	O-USA	O-FOR	Age	Elapse	Credits	GPA	Credits	Full	Part	Total
Biological Science Group - Most Recent Degree a Bachelor's														
	M	6	17	--	83	--	23.3	1.5	188.2	3.68	87.8	15.7	3.7	19.3
	F	3	--	--	100	--	23.0	--	186.7	3.89	60.0	15.3	2.7	18.0
	T	9	11	--	89	--	23.2	1.0	187.7	3.75	78.6	15.6	3.3	18.9
Biological Science Group - Most Recent Degree Higher than a Bachelor's														
	M	6	17	--	33	50	26.3	1.3	170.7	3.75	86.7	15.5	2.7	13.2
	F	3	--	--	67	33	28.3	1.7	155.3	3.63	84.0	14.0	2.3	16.3
	T	9	11	--	44	44	27.0	1.4	165.6	3.72	85.3	15.0	2.6	17.6
Pure Science Group - Most Recent Degree a Bachelor's														
	M	5	--	--	100	--	23.6	1.6	222.0	3.69	119.4	22.6	5.6	28.2
	F	--	--	--	--	--	--	--	--	--	--	--	--	--
	T	5	--	--	100	--	23.6	1.6	222.0	3.69	119.4	22.6	5.6	28.2
Pure Science Group - Most Recent Degree Higher than a Bachelor's														
	M	6	--	--	100	--	25.3	1.7	163.3	3.54	128.0	17.0	3.5	20.5
	F	1	--	--	100	--	22.0	--	37.0	3.18	38.0	7.0	7.0	14.0
	T	7	--	--	100	--	24.9	1.4	145.3	3.46	115.1	15.6	4.0	19.6
Literature Group - Most Recent Degree a Bachelor's														
	M	10	30	--	50	20	24.8	1.3	175.1	3.86	52.5	15.8	3.9	19.7
	F	2	--	--	100	--	25.5	1.0	141.0	4.00	58.5	13.0	3.0	16.0
	T	12	25	--	58	17	24.9	1.3	169.4	3.88	53.5	15.3	3.8	19.1
Literature Group - Most Recent Degree Higher than a Bachelor's														
	M	16	13	6	50	31	29.7	1.3	100.3	3.79	31.3	9.1	2.6	11.6
	F	16	31	--	44	25	31.1	0.6	96.5	3.85	38.9	8.5	5.5	14.0
	T	32	22	3	47	28	30.4	0.9	98.4	3.82	35.1	8.8	4.0	12.8

Table 6 continued

Group	Sex	N	Source of Bachelor's (%)				Mean	Mean	Mean	Mean	Mean Diss.	Mean Quarters in Attendance		
			UW	O-WA	O-USA	O-FOR	Age	Elapse	Credits	GPA	Credits	Full	Part	Total
Engineering Group - Most Recent Degree a Bachelor's														
	M	6	17	--	50	33	24.0	1.5	177.5	3.58	94.8	16.7	4.7	21.3
	F	--	--	--	--	--	--	--	--	--	--	--	--	--
	T	6	17	--	50	33	24.0	1.5	177.5	3.58	94.8	16.7	4.7	21.3
Engineering Group - Most Recent Degree Higher than a Bachelor's														
	M	32	16	--	53	31	27.4	0.8	109.6	3.67	83.6	9.9	5.0	14.9
	F	--	--	--	--	--	--	--	--	--	--	--	--	--
	T	32	16	--	53	31	27.4	0.8	109.6	3.67	83.6	9.9	5.0	14.9
Medical School Doctorate Group - Most Recent Degree a Bachelor's														
	M	7	14	14	71	--	25.0	3.0	231.1	3.46	109.1	23.0	2.3	25.3
	F	5	20	20	60	--	25.6	3.6	143.6	3.56	68.2	14.2	5.6	19.8
	T	12	17	17	67	--	25.8	3.3	196.8	3.50	92.1	19.3	3.7	23.0
Medical School Doctorate Group - Most Recent Degree Higher than a Bachelor's														
	M[a]	7	--	--	71	14	28.6	2.3	176.4	3.82	68.3	14.1	4.1	18.3
	F	--	--	--	--	--	--	--	--	--	--	--	--	--
	T[a]	7	--	--	71	14	28.6	2.3	176.4	3.82	68.3	14.1	4.1	18.3
Anthropology - Most Recent Degree a Bachelor's														
	M	1	100	--	--	--	24.0	1.0	169.0	3.66	65.0	17.0	4.0	21.0
	F	--	--	--	--	--	--	--	--	--	--	--	--	--
	T	1	100	--	--	--	24.0	1.0	169.0	3.66	65.0	17.0	4.0	21.0
Anthropology - Most Recent Degree Higher than a Bachelor's														
	M	3	--	--	100	--	27.7	2.0	65.3	3.88	40.7	5.0	5.3	10.3
	F	4	50	--	50	--	31.5	--	134.3	3.96	56.3	13.3	5.8	19.0
	T	7	29	--	71	--	29.9	0.9	104.7	3.93	49.6	9.7	5.6	15.3

Table 6 continued

Group	Sex	N	Source of Bachelor's (%)				Mean	Mean	Mean	Mean	Mean Diss.	Mean Quarters in Attendance		
			UW	O-WA	O-USA	O-FOR	Age	Elapse	Credits	GPA	Credits	Full	Part	Total
Chemistry - Most Recent Degree a Bachelor's														
	M	8	13	--	75	13	23.8	0.6	205.0	3.74	86.8	18.3	1.3	19.5
	F	3	--	--	100	--	23.0	--	237.0	3.82	116.3	19.7	1.3	21.0
	T	11	9	--	82	9	23.6	0.5	213.7	3.76	94.8	18.6	1.3	19.9
Chemistry - Most Recent Degree Higher than a Bachelor's														
	M	2	--	--	100	--	23.0	--	262.5	3.96	110.0	21.5	1.0	22.5
	F	2	--	--	50	50	24.5	1.5	237.5	3.72	137.5	17.5	2.5	20.0
	T	4	--	--	75	25	23.8	0.8.	250.0	3.84	123.8	19.5	1.8	21.3
Geography - Most Recent Degree Higher than a Bachelor's														
	M	6	17	--	83	--	30.0	1.3	122.5	3.72	48.2	12.0	2.3	14.3
	F	--	--	--	--	--	--	--	--	--	--	--	--	--
	T	6	17	--	83	--	30.0	1.3	122.5	3.72	48.2	12.0	2.3	14.3
History - Most Recent Degree Higher than a Bachelor's														
	M	15	--	20	80	--	27.9	1.1	83.8	3.90	47.5	8.5	2.7	11.2
	F	3	33	00	67	--	23.0	0.3	127.0	3.83	62.0	12.7	0.7	13.3
	T	18	6	17	78	--	27.1	1.0	91.0	3.88	49.9	9.2	2.3	11.6
Mathematics - Most Recent Degree a Bachelor's														
	M	3	33	--	33	33	22.7	0.7	139.3	3.96	44.7	14.3	2.0	16.3
	F	--	--	--	--	--	--	--	--	--	--	--	--	--
	T	3	33	--	33	33	22.7	0.7	139.3	3.96	44.7	14.3	2.0	16.3
Mathematics - Most Recent Degree Higher than a Bachelor's														
	M	4	25	--	75	--	21.5	--	41.0	4.00	55.8	6.8	2.0	8.8
	F	--	--	--	--	--	--	--	--	--	--	--	--	--
	T	4	25	--	75	--	21.5	--	41.0	4.00	55.8	6.8	2.0	8.8

Table 6 continued

Group	Sex	N	Source of Bachelor's (%)				Mean	Mean	Mean	Mean	Mean Diss.	Mean Quarters in Attendance		
			UW	O-WA	O-USA	O-FOR	Age	Elapse	Credits	GPA	Credits	Full	Part	Total
Psychology - Most Recent Degree a Bachelor's														
	M	8	13	--	88	--	27.0	3.5	144.4	3.75	50.4	13.6	4.1	17.8
	F	5	20	20	60	--	24.2	2.6	121.4	3.88	39.4	11.0	3.2	14.2
	T	13	15	8	77	--	25.9	3.2	135.5	3.80	46.2	12.6	3.8	16.4
Psychology - Most Recent Degree Higher than a Bachelor's														
	M	3	--	67	33	--	26.3	2.0	97.7	3.56	35.0	7.3	6.7	14.0
	F	2	50	--	50	--	22.0	1.0	117.5	3.81	54.0	9.5	8.5	18.0
	T	5	20	40	40	--	24.6	1.6	105.6	3.62	42.6	8.2	7.4	15.6
Speech - Most Recent Degree a Bachelor's														
	M	2	--	--	100	--	23.0	1.0	117.0	3.51	39.5	10.0	4.5	14.5
	F	--	--	--	--	--	--	--	--	--	--	--	--	--
	T	2	--	--	100	--	23.0	1.0	117.0	3.51	39.5	10.0	4.5	14.5
Speech - Most Recent Degree Higher than a Bachelor's														
	M	5	--	--	100	--	29.6	1.6	92.0	3.65	44.6	7.8	7.6	15.4
	F	2	50	--	50	--	27.0	2.5	131.5	4.00	51.5	12.0	3.5	15.5
	T	7	14	--	86	--	28.9	1.9	103.3	3.75	46.6	9.0	6.4	15.4
Business Administration - Most Recent Degree a Bachelor's														
	M	1	100	--	--	--	57.0	36.0	114.0	3.80	42.0	9.0	12.0	21.0
	F	--	--	--	--	--	--	--	--	--	--	--	--	--
	T	1	100	--	--	--	57.0	36.0	114.0	3.80	42.0	9.0	12.0	21.0
Business Administration - Most Recent Degree Higher than a Bachelor's														
	M	10	--	10	70	20	29.8	3.2	119.6	3.71	48.5	10.8	8.2	19.0
	F	--	--	--	--	--	--	--	--	--	--	--	--	--
T	T	10	--	10	70	20	29.8	3.2	119.6	3.71	48.5	10.8	8.2	19.0

Table 6 continued

Group	Sex	N	Source of Bachelor's (%)				Mean	Mean	Mean	Mean	Mean Diss.	Mean Quarters in Attendance		
			UW	O-WA	O-USA	O-FOR	Age	Elapse	Credits	GPA	Credits	Full	Part	Total
Education - Most Recent Degree a Bachelor's														
	M	1	100	--	--	--	37.0	10.0	108.0	3.38	58.0	8.0	5.0	13.0
	F	--	--	--	--	--	--	--	--	--	--	--	--	--
	T	1	100	--	--	--	37.0	10.0	108.0	3.38	58.0	8.0	5.0	13.0
Education - Most Recent Degree Higher than a Bachelor's														
	M	17	24	35	29	12	34.0	2.2	106.5	3.68	39.0	9.2	6.5	15.7
	F	10	--	--	70	30	31.6	2.6	107.1	3.72	39.0	8.1	8.0	16.1
	T	27	15	22	44	19	33.1	2.4	106.7	3.69	39.0	8.8	7.1	15.9
Fisheries - Most Recent Degree a Bachelor's														
	M	4	50	--	50	--	26.8	3.3	152.3	3.67	48.3	12.3	5.3	18.0
	F	--	--	--	--	--	--	--	--	--	--	--	--	--
	T	4	50	--	50	--	26.8	3.3	152.3	3.67	48.3	12.8	5.3	18.0
Fisheries - Most Recent Degree Higher than a Bachelor's														
	M	8	--	--	63	38	28.6	1.9	176.5	3.60	77.9	14.1	6.8	20.9
	F	1	--	--	100	--	28.0	4.0	127.0	3.90	80.0	7.0	10.0	17.0
	T	9	--	--	67	33	28.6	2.1	171.0	3.63	78.1	13.3	7.1	20.4
Forestry - Most Recent Degree a Bachelor's														
	M	4	25	--	--	75	25.8	1.3	141.5	3.63	56.0	12.3	3.8	16.0
	F	--	--	--	--	--	--	--	--	--	--	--	--	--
	T	4	25	--	--	75	25.8	1.3	141.5	3.63	56.0	12.3	3.8	16.0
Forestry - Most Recent Degree Higher than a Bachelor's														
	M	5	20	--	40	40	29.0	--	95.8	3.58	33.2	10.2	6.2	16.4
	F	--	--	--	--	--	--	--	--	--	--	--	--	--
	T	5	20	--	40	40	29.0	--	95.8	3.58	33.2	10.2	6.2	16.4

Table 6 continued

Group	Sex	N	Source of Bachelor's (%)				Mean	Mean	Mean	Mean	Mean Diss.	Mean Quarters in Attendance		
			UW	O-WA	O-USA	O-FOR	Age	Elapse	Credits	GPA	Credits	Full	Part	Total
Pharmaceutical Sciences - Most Recent Degree a Bachelor's														
	M	4	25	--	50	25	24.5	1.3	149.3	3.48	82.0	16.3	4.3	20.5
	F	--	--	--	--	--	--	--	--	--	--	--	--	--
	T	4	25	--	50	25	24.5	1.3	149.3	3.48	82.0	16.3	4.3	20.5
Pharmaceutical Sciences - Most Recent Degree Higher than a Bachelor's														
	M	2	50	--	--	50	26.0	0.5	66.5	3.74	62.5	11.0	3.0	14.0
	F	--	--	--	--	--	--	--	--	--	--	--	--	--
	T	2	50	--	--	50	26.0	0.5	66.5	3.74	62.5	11.0	3.0	14.0

[a]Percentages for source of bachelor's do not sum to 100% because of missing data.

the PhC and PhD. While it took the bachelor's entrant longer to attain the PhC, these students devoted about the same length of time to the dissertation. A second broad generalization is related to the associated master's programs. In areas awarding a Master of Arts (ex., History, Speech) students took less time to achieve the PhC or PhD than in Master of Science areas. Outside these areas, doctorates in Business Administration and the Medical School Group took longer, while those in Engineering and Education required about the average length of time.

The proportion of women receiving PhDs dropped slightly from those attaining candidacy (21% vs. 23%) and there are no PhD areas in which the women exceeded 50%. In only one area, Anthropology, were there equal numbers. The Psychology and Literature Group had the next largest proportions of women (about 40%) and both were areas which had substantial numbers of women PhCs. At the other extremity, the greatest discrepancy was noted in six areas (Engineering Group, Geography, Mathematics, Business Administration, Forestry, and Pharmaceutical Sciences) in which there were no women PhDs and these areas also had correspondingly low percentages of women PhCs.

Other differences were similar to those noted for the PhCs: bachelor's entrants were younger at entry, were in attendance longer but did slightly more dissertation work. The Education PhDs were, again, the oldest at time of program entry.

Discussion

What do these data reveal about this cohort of advanced degree recipients from the UW in 1974-75?

1. Among master's recipients entering with a bachelor's, over 3/4's received their degree within 2 years of entry.

2. Among doctoral candidates, those entering with bachelor's spent approximately 3 full years in residence, those with advanced degrees about 2 years. Women in both groups took slightly less time.

3. Among PhDs, bachelor's and advanced entrants were enrolled for 5 and 4 years, respectively. Among the bachelor's entrants women took slightly less time.

4. Although the proportion of women receiving a degree declined as the degree level rose and although many of the master's programs were unbalanced, at all 3 degree levels the profiles for women and men within an area were remarkedly similar.

5. Among both PhCs and PhDs the overwhelming majority (70%) had earlier advanced degrees. Those pursuing doctoral work with only a bachelor's, however, were younger at entry, took more credits, did more dissertation work, and required a longer time (1 year) than their advanced degree counterparts.

6. Of the 23 master's programs studied, the Master of Librarianship had the shortest completion rate (5.5 quarters) and the Master of Architecture the longest (9.3 quarters).

7. One can broadly generalize and link the rate of completion of the PhC or PhD with the associated master's programs. In areas awarding a Master of Arts students took less time, in general, to achieve their degree than in Master of Science areas. For the remaining fields of concentration, Business Administration and Medical School Group graduates took longer than average, while those in Engineering and Education took about the average length of time to obtain their degree.